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- (88) Date of publication of the international search report:
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(54) Title: METHODS OF TREATMENT AND DIAGNOSIS OF KAPOSI'S SARCOMA (KS) AND KS RELATED DISEASES

(57) Abstract: The present invention uses gene expression profiling, and gene silencing methods to identify and provide a plurality of 'validated' KSHV-induced cellular gene sequences and pathways useful as targets for modulation of KSHV-mediated effects on cellular proliferation and phenotype (e.g., cancer) associated with latent and lytic phases of the Kaposi's sarcoma-associated herpesvirus (KSHV; Human herpesvirus 8; HHV8) life cycle. Particular embodiments provide therapeutic compositions, and methods for modulation of KSHV infection or KSHV-mediated effects on cellular proliferation and phenotype, comprising inhibition of KSHV-induced gene sequences. Additional embodiments provide screening assays for compounds useful to modulate KSHV infection or KSHV-mediated effects on cellular proliferation and phenotype. Further embodiments provide diagnostic and/or prognostic assays for KSHV infection.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/00320

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68
US CL : 435/6

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 435/6

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	POOLE et al. Altered patterns of cellular gene expression in dermal microvascular endothelial cells infected with Kaposi's sarcoma-associated herpesvirus. Journal of Virology. April 2002, Vol. 76, No. 7, pages 3395-3420.	1-3, 9-11, 14-16, 20-22, 25-27, 32-36
A	MOSES et al. A Functional Genomics Approach to Kaposi's Sarcoma. Ann N Y Acad Sci. Dec 2002, Vol. 975, pages 180-191.	1-3, 9-11, 14-16, 20-22, 25-27, 32-36
A	LAGUNOFF et al. De Novo Infection and Serial Transmission of Kaposi's Sarcoma-Associated Herpesvirus in Cultured Endothelial Cells. Journal of Virology. Mar 2002, Vol. 76, No. 5, pages 2440-2448.	1-3, 9-11, 14-16, 20-22, 25-27, 32-36
A	Spindle Cell Conversion by Kaposi's Sarcoma-Associated Herpesvirus: Formation of Colonies and Plaques with Mixed Lytic and Latent Gene Expression in Infected Primary Dermal Microvascular Endothelial Cell Cultures. Journal of Virology June 2001, Vol. 75, No. 12, pages 5614-5626.	1-3, 9-11, 14-16, 20-22, 25-27, 32-36

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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Continuation of B. FIELDS SEARCHED Item 3:
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search terms: HHV-8, Kaposi?, herpes virus, KSHV